PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY To: D. BENJAMIN BORSON FLIESLER MEYER LLP FOUR EMBARCADERO CENTER FOURTH FLOOR SAN FRANCISCO, CA 94111-4156		PCT -				
		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
			(PCT Rule 43bis.1)			
		Date of mailing (day/month/year)	1 6 NOV 2005			
Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below				
GENN01011WO0 International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/US04/42027	13 December 2004 (13.12.2004)		12 December 2003 (12.12.2003)			
International Patent Classification (IPC) or both national classifica	ation and IPC	• .			
IPC(7): G01N 33/48 and US Cl.: 702/ Applicant						
GNI LTD.						
GIN LID.	· · · · · · · · · · · · · · · · · · ·					
1. This opinion contains indications r	elating to the following iter	ms:				
Box No. I Basis of the opinion						
Box No. II Priority						
Box No. III Non-estab	lishment of opinion with re	egard to novelty, inv	entive step and industrial applicability			
Box No. IV Lack of u						
	statement under Rule 43bi		to novelty, inventive step or industrial			
Box No. VI Certain de	ocuments cited	·				
Box No. VII Certain de	efects in the international a	pplication				
Box No. VIII Certain of	oservations on the internation	onal application	<u>.</u>			
2. FURTHER ACTION			·			
If a demand for international prel International Preliminary Examin	ing Authority ("IPEA") e the IPEA and the chosen	xcept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an le International Bureau under Rule 66.1bis(b) dered.			
IPEA a written reply together, w mailing of Form PCT/ISA/220 or	here appropriate, with an before the expiration of 22	nendments, before th	PEA, the applicant is invited to submit to the he expiration of 3 months from the date of ority date, whichever expires later.			
For further options, see Form PC	/13A/22U.					
3. For further details, see notes to Fo	rm PCT/ISA/220.					
Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	opinion	etion of this 05 (19.10.2005)	Authorized officer California San Harry Lin			
Alexandria, Virginia 22313-1450		•	Telephone No. (571) 272 1600			

Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (April 2005)

From the

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/42027

Box No. I Basis of this opinion							
1. With regard to the language, this opinion has been established on the basis of:							
the international application in the language in which it was filed							
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).							
2. With regard to any nucleotide and/or amino acid sequence disclosed in the internationa claimed invention, this opinion has been established on the basis of:	l application and necessary to the						
a. type of material							
a sequence listing	·						
table(s) related to the sequence listing							
b. format of material	·						
on paper							
in electronic form							
c. time of filing/furnishing							
contained in the international application as filed.	÷						
filed together with the international application in electronic form.							
furnished subsequently to this Authority for the purposes of search.							
3. In addition, in the case that more than one version or copy of a sequence listing and/o filed or furnished, the required statements that the information in the subsequent or add the application as filed or does not go beyond the application as filed, as appropriate, we	ditional copies is identical to that in						
4. Additional comments:							
	. ••						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (April 2005)

International application No --

Box No. V Reasoned statement under Rul applicability; citations and expl	e 43 <i>bis</i> .1(a)(i anations supp) with regard to nove orting such statemen	elty, inventive step or	industrial
1. Statement				•
Novelty (N)	Claims	4-11	·	YES
	Claims	1-3, 12-17		NO
Inventive step (IS)	Claims	4-11		YES
		1-3, 12-17	<u> </u>	NO
Industrial applicability (IA)	Claims	1-17		YES
	Claims	NONE		NO
2. Citations and explanations:				
Claims 1-3 and 12-17 lack novelty under PCT Arti	icle 33(2) as bei	ng anticipated by Imoto	et al. (US 20030219764 A	A1).
Imoto et al. teach a method that includes relevant subspace of a search space (page 1, parag (page 1, paragraph 0009; page 2, paragraph 0011) to a metabolic pathway of an organism (pages 1-2 a storage medium or system (page 20, paragraphs	raph 0007); cald ; a Bayesian net , paragraph 001	culating the optimal solutions work estimation model (tion in the subspace with (pages 1-2, paragraph 001	an algorithm (θ); genes relating
Claims 1-3 and 12-17 lack an inventive step under the reasons above.	PCT Article 33	(3) as being obvious ove	er Imoto et al. (US 20030	219764 A1) for
Claims 4-11 meet the criteria set out in PCT Artic the instant claims.	le 33(2)-(3), bed	ause the prior art does r	not teach or fairly suggest	the limitations of
Claims 1-17 meet the criteria set out in PCT Artic can be made or used in industry for the purpose of	le 33(4), and the determine gene	us have industrial applica relationships.	ability because the subjec	t matter claimed
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				•
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application blo

PCT/US04/42027

Box No. VIII Certain observations on the international application

The following observations on the claims of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 4-12 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 4-11 are indefinite for the following reason(s):

Claims 4-11 are indefinite because they contain mathematical equations with undefined variables. For example, in instant claim 4, the variable A, G, g, etc are not defined as to what they represent.

Claim 12 is definite because it unclear to what the abbreviations BRNC, Bde, and MDL refer.

Form PCT/ISA/237 (Box No. VIII) (April 2005)